

Patent Claims:

1.-11. Canceled

12. (New) A Piston-type accumulator, with an axially movable piston in a housing bore, with a seal interposed between the piston and the housing bore and being fixed inside the housing bore, and with a cover for closing the housing bore,

wherein the housing bore (5), at its end closed by the cover (6), is designed as a stepped bore enlarged in diameter in which the seal (4) is fixed.

13. (New) The piston-type accumulator as claimed in claim 12,

wherein a first and a second bore step (1, 2) are arranged inside the stepped bore, and the diameter of the stepped bore in the area of the first bore step (1) corresponds to the inside diameter of the housing bore (5), while the inside diameter of the stepped bore in the area of the second bore step (2) is adapted to the outside diameter of the seal (4).

14. (New) The piston-type accumulator as claimed in claim 12,

wherein the stepped bore at the outside edge of the housing bore (5) is limited by a third bore step (3) which is formed by a plastic deformation of the housing material which fixes the cover (6) at the stepped bore.

15. (New) The piston-type accumulator as claimed in claim 13,

wherein a retaining part (7) is provided between the second and the third bore step (2, 3) in order to fix the seal (4) at the first bore step (1).

16. (New) The piston-type accumulator as claimed in claim 15,

wherein the retaining part (7) bears directly against the second bore step (2), and wherein the seal (4) is covered by the retaining part (7) at least in part in the direction of the peripheral piston surface.

17. (New) The piston-type accumulator as claimed in claim 15,

wherein the retaining part (7) is configured as an annular washer which is pressed by a cover (6) that closes the housing bore (5) against the second bore step (2) and against the seal (4).

18. (New) The piston-type accumulator as claimed in claim 15,
wherein the outside diameter of the retaining part (7) is adapted to the diameter
of the stepped bore, and the inside diameter of the retaining part (7) is adapted to the
outside diameter of a piston (8) guided in the housing bore (5).
19. (New) The piston-type accumulator as claimed in claim 15,
wherein the retaining part (7) is formed directly by the edge (9) of a cover (6) that
closes the housing bore (5).
20. (New) The piston-type accumulator as claimed in claim 19,
wherein the edge (9) of the essentially bowl-shaped cover (6) is bent off at right
angles in an outward direction in order to provide the contour of an annular washer and
is covered outside by the plastically deformed housing material.
21. (New) The piston-type accumulator as claimed in claim 12,
wherein the cover (6) is configured as a bowl, the inside diameter of the bowl in
the area of the edge (9) having a minimum clearance with regard to the outside
diameter of the piston (8) in order to fix the seal (4).
22. (New) The piston-type accumulator as claimed in claim 21,
wherein the bowl is a deep-drawn part.
23. (New) The piston-type accumulator as claimed in claim 21,
wherein, in the working stroke area of the piston (8), the bowl has at least one
portion (13) in the direction of the bowl bottom, the inside diameter of which is expanded
like a funnel in the direction of the bowl bottom in order to allow a generously tolerated
passage of the piston (8).